

FIGURE 1

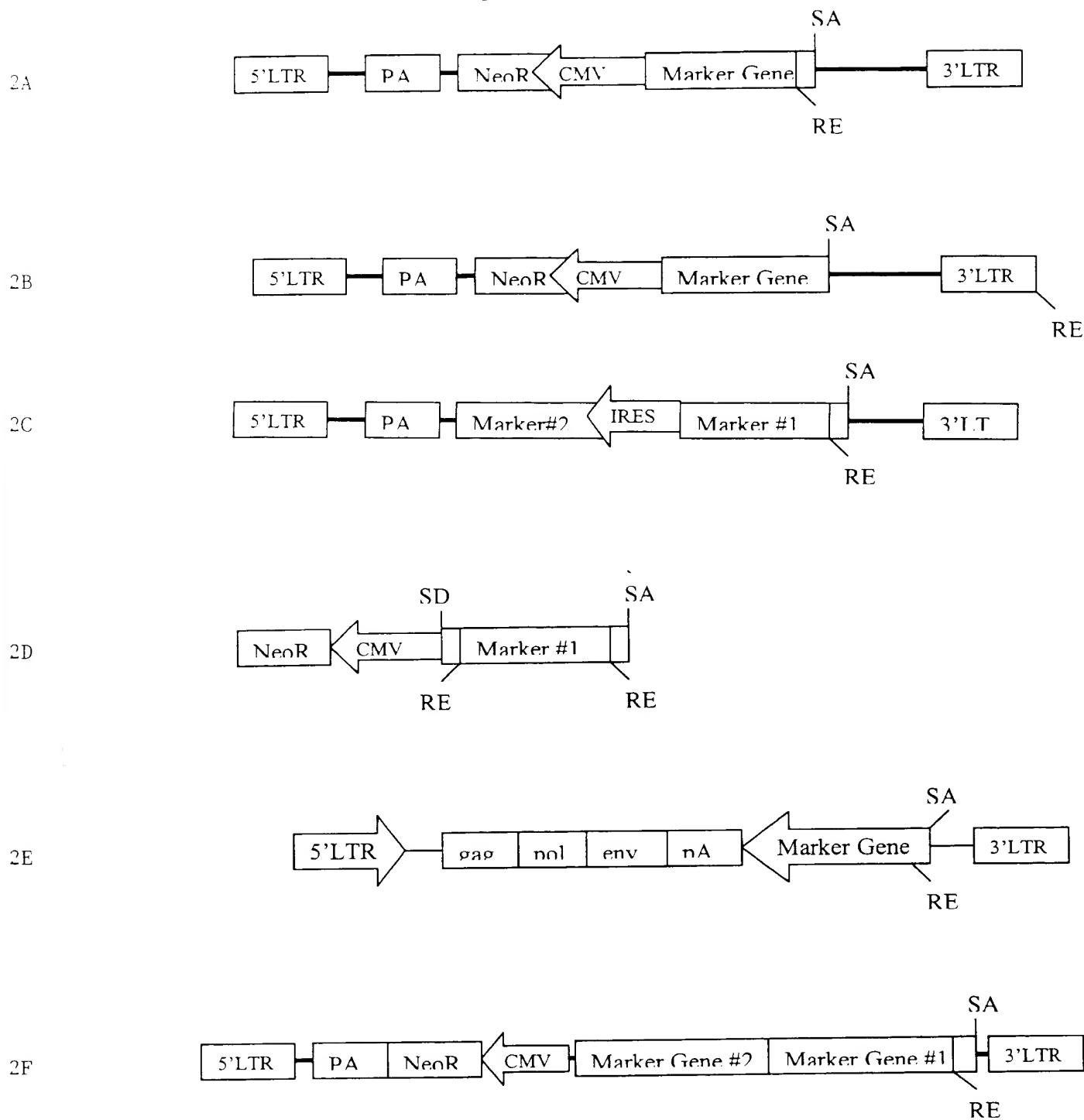
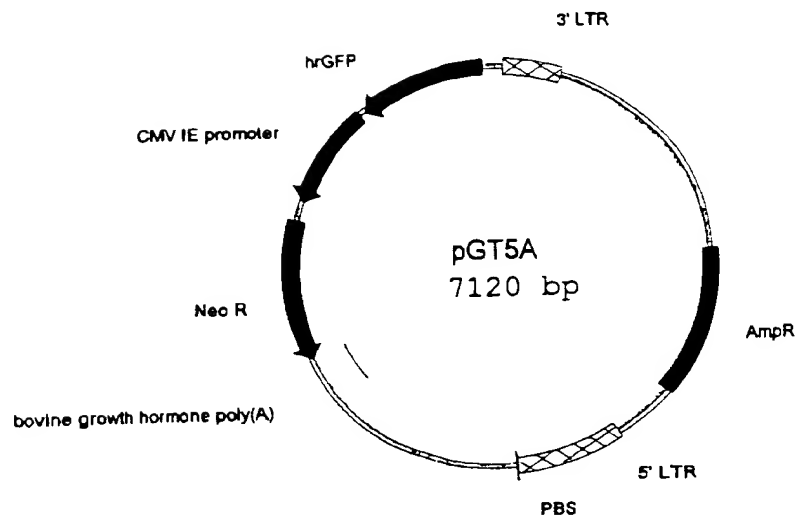


FIGURE 2

A



B

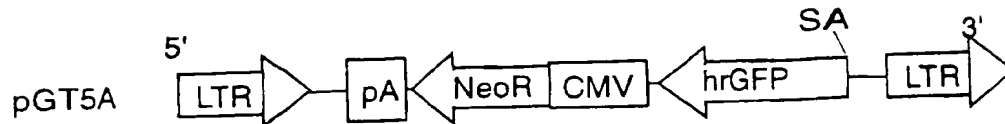


FIGURE 4

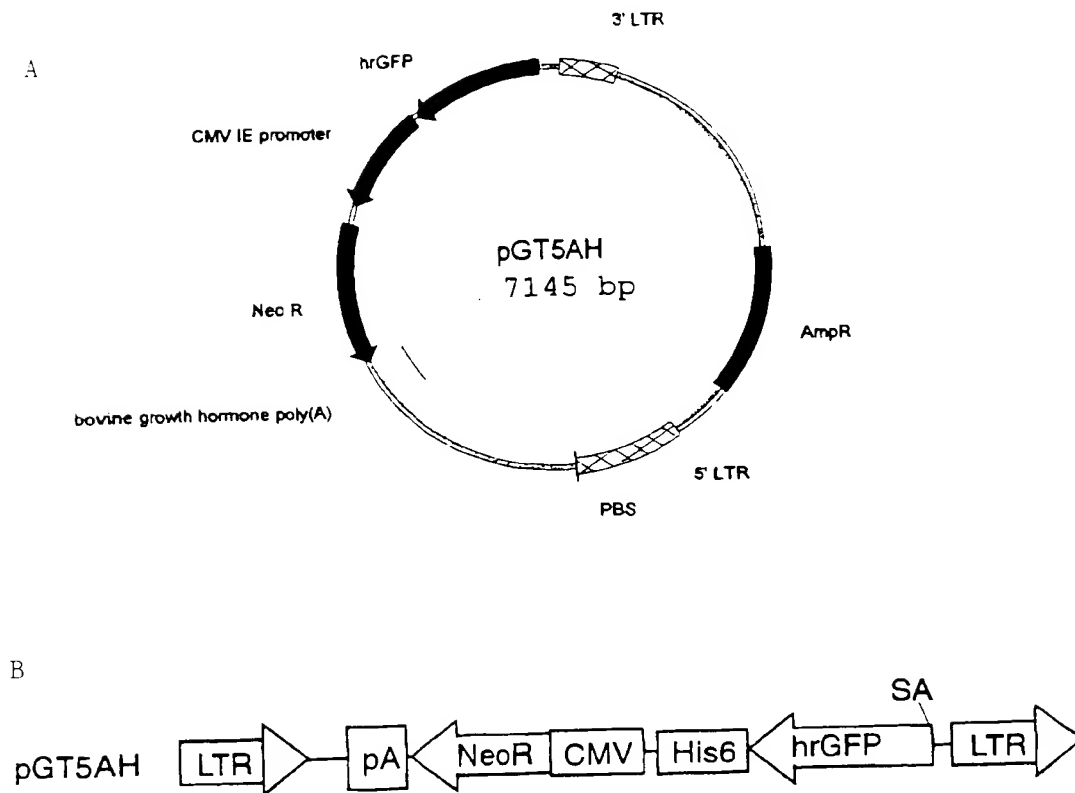
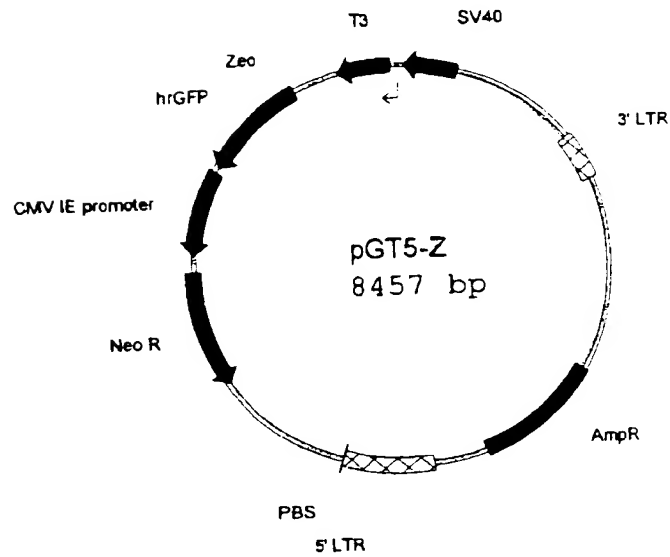


FIGURE 5

A



B

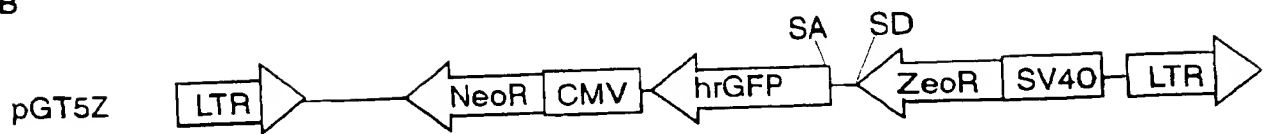
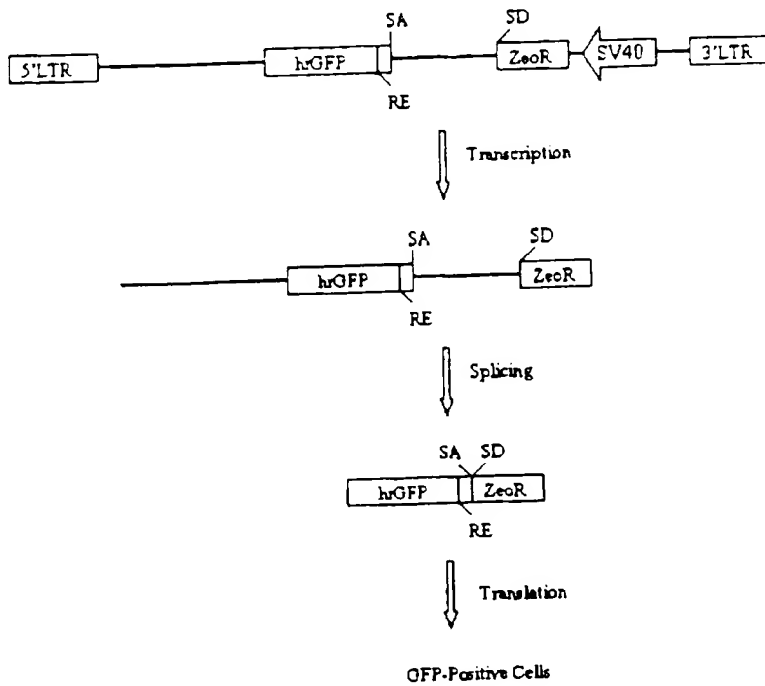


FIGURE 6

A.



B.

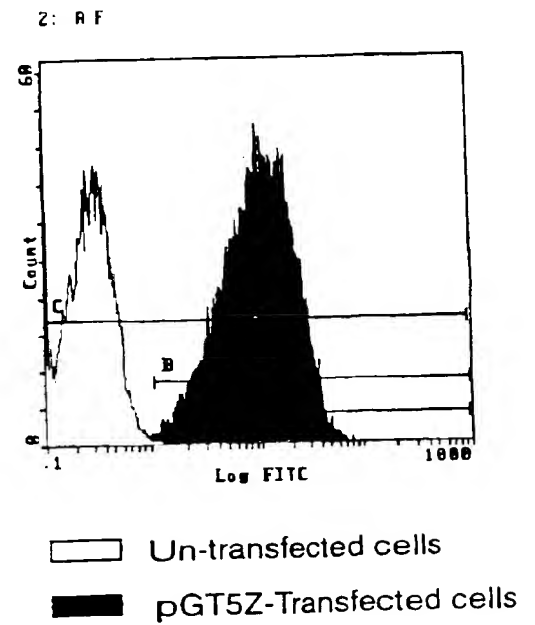
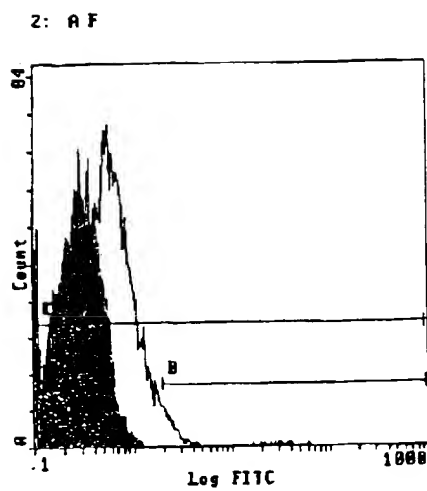


FIGURE 7

A



5:



GFP (-) population



GFP (+) population



PA317 without pGT5A transfection

B

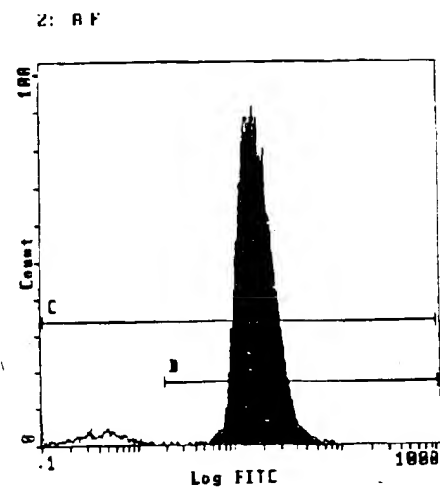


FIGURE 8

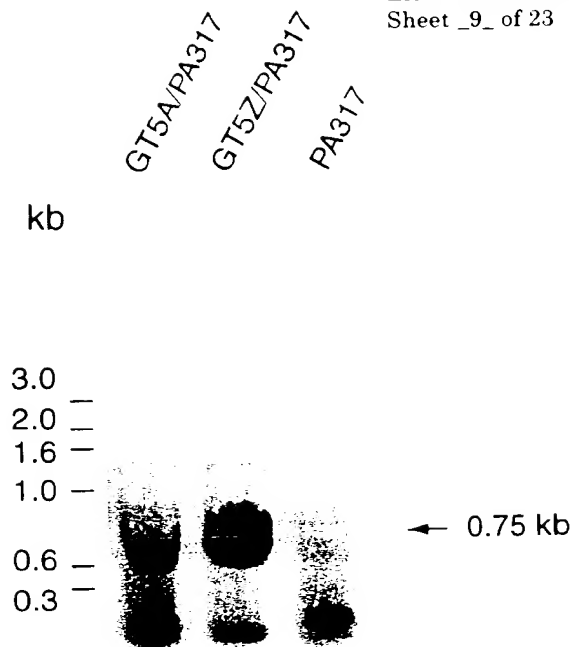
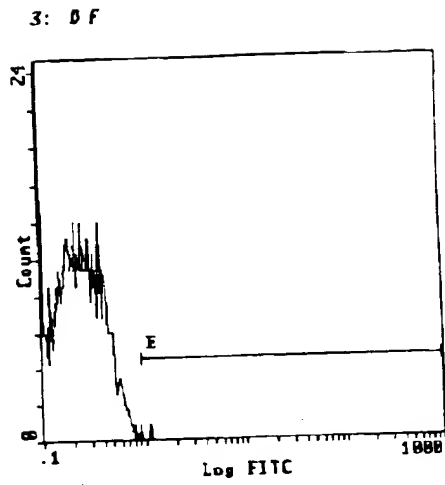


FIGURE 9

A



B

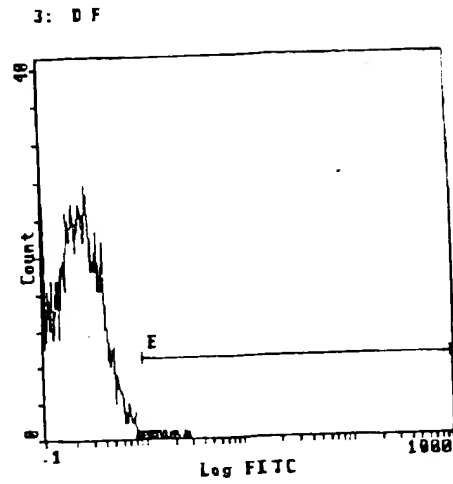
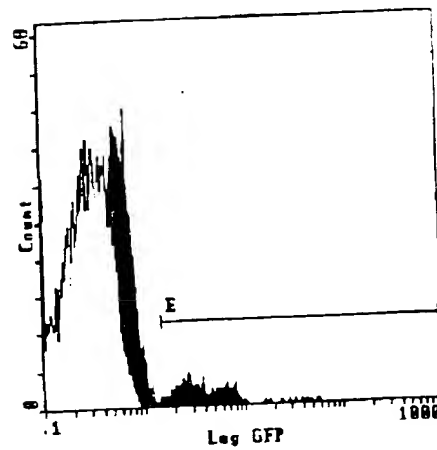
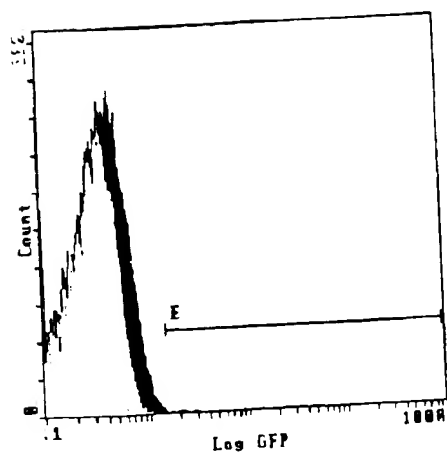


FIGURE 10

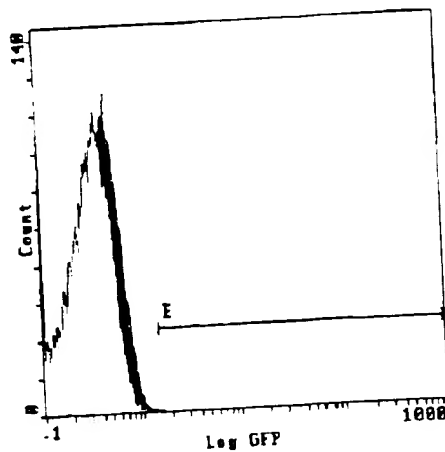


□ Un-transduced NIH3T3 cells
■ GT5A-transduced NIH3T3 cells

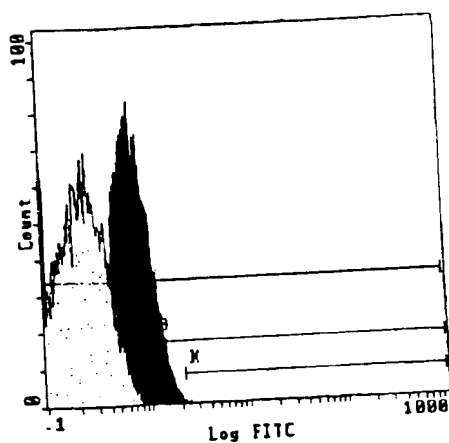
FIGURE 11



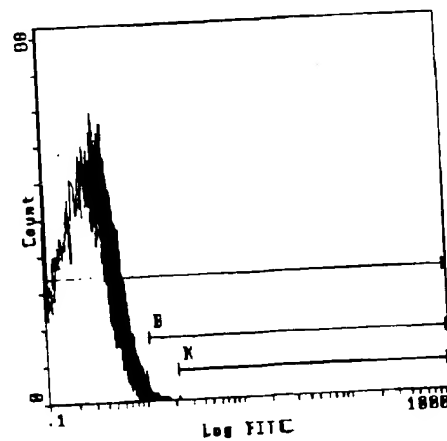
A6P1



C4P2



C8P2



H8P2



 Untransduced NIH3T3 cells.
 Single-cell clones of transduced NIH3T3 cells.

FIGURE 12

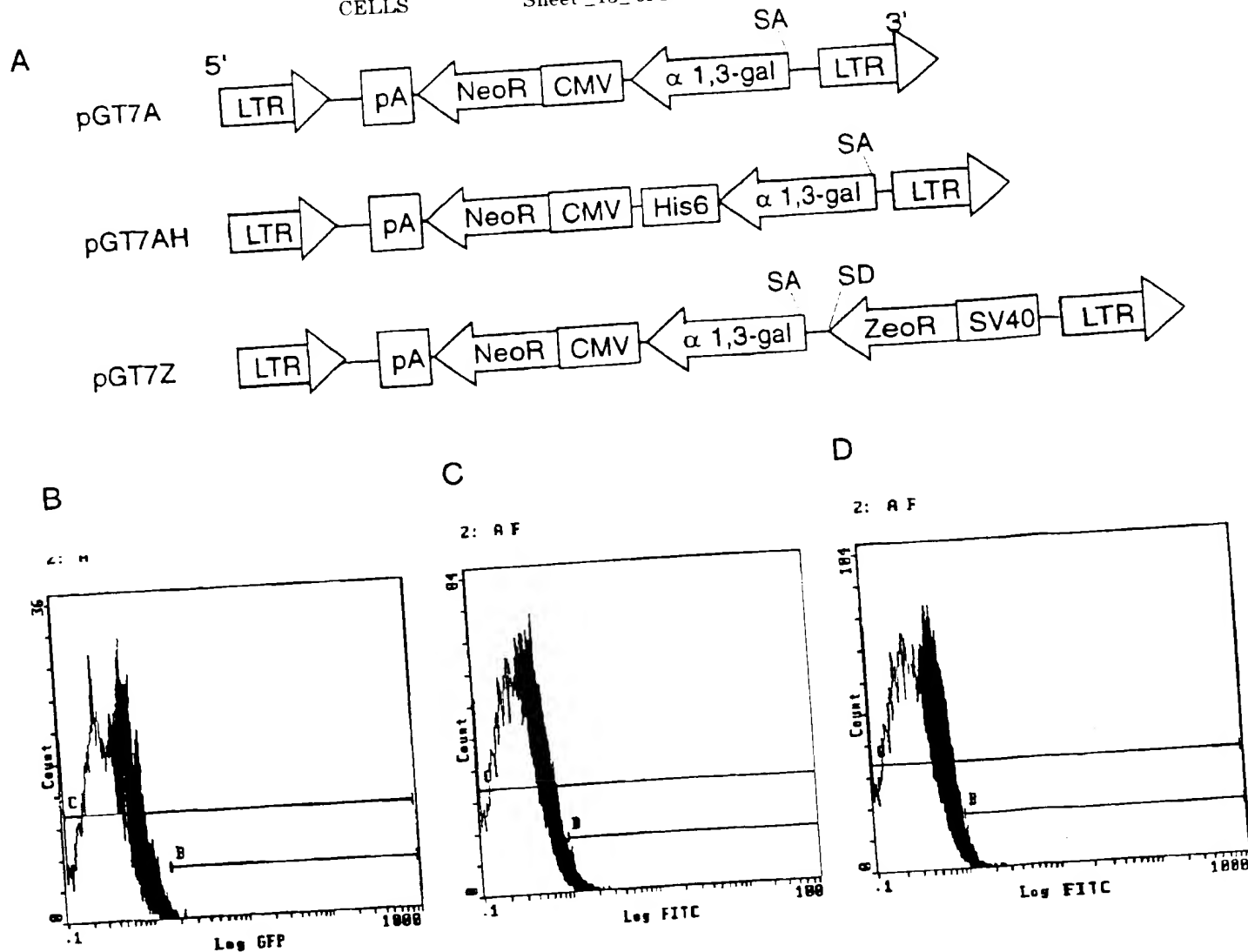


FIGURE 13

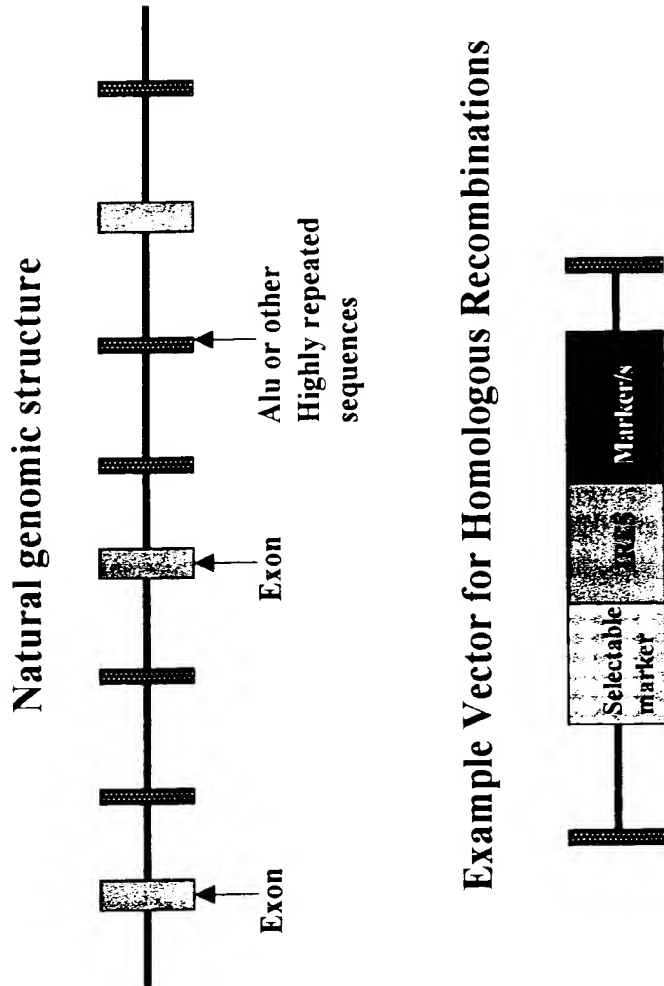


FIGURE 14

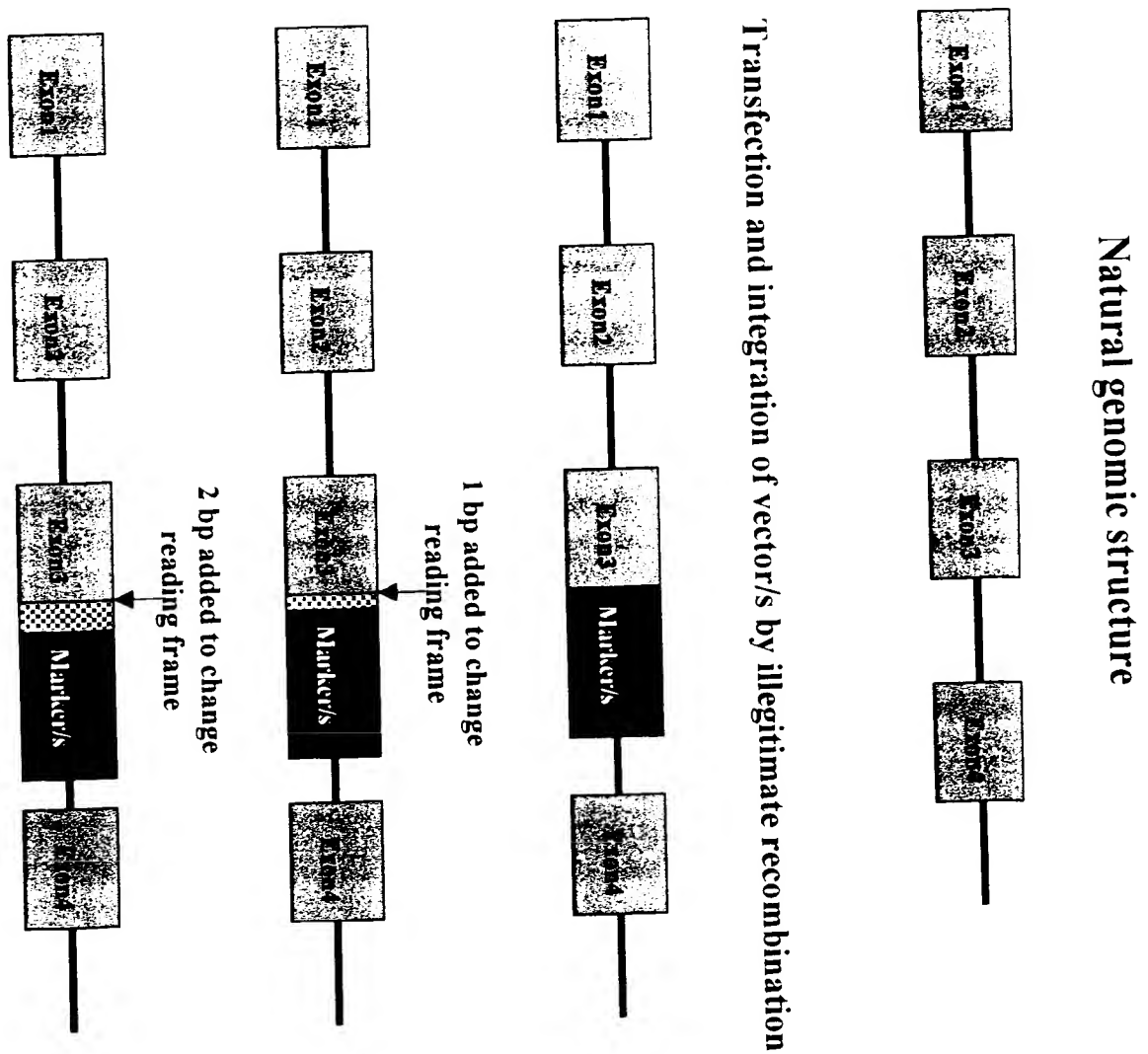


FIGURE 15

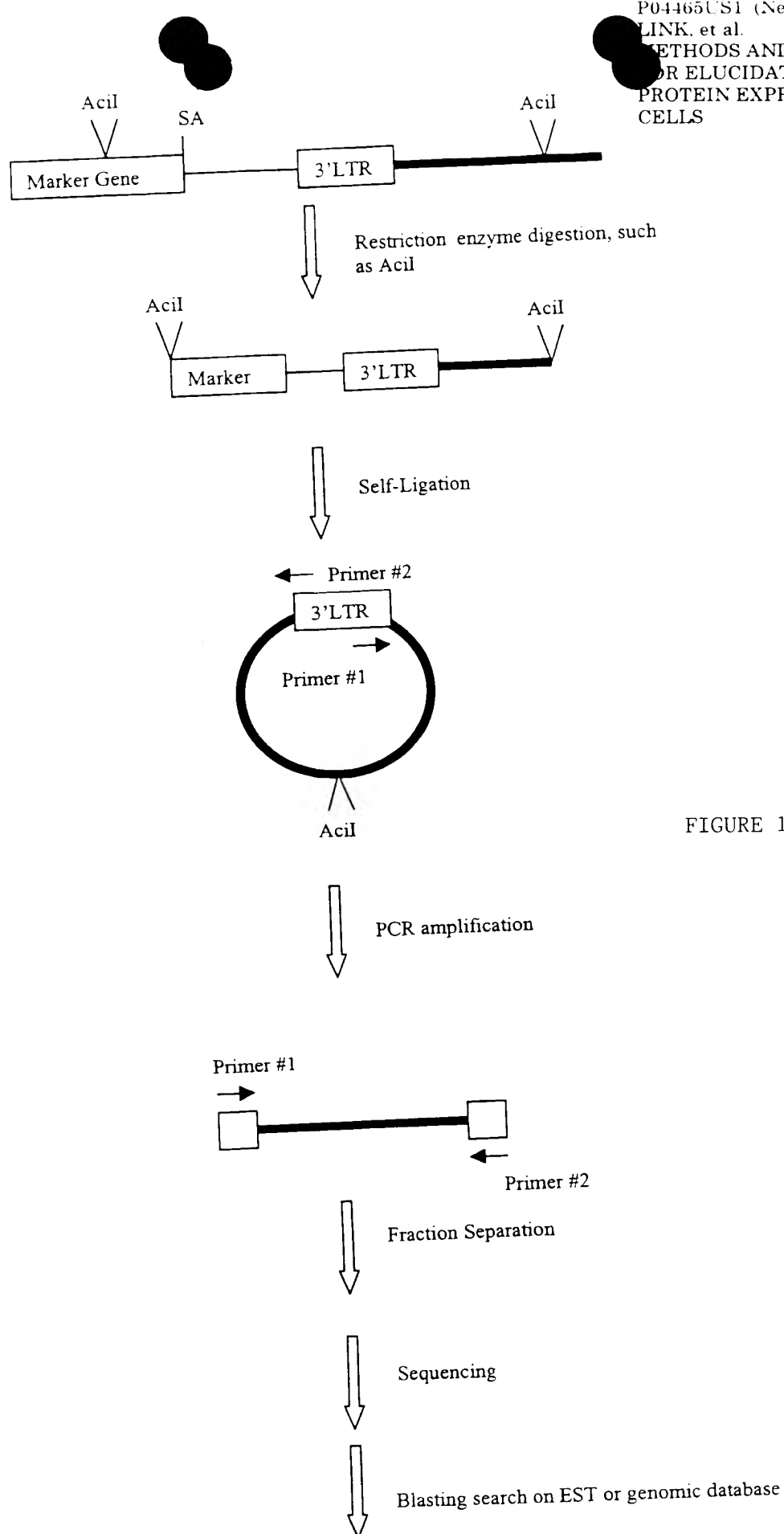


FIGURE 16

Serial Analysis of Viral Integration (SAVI)

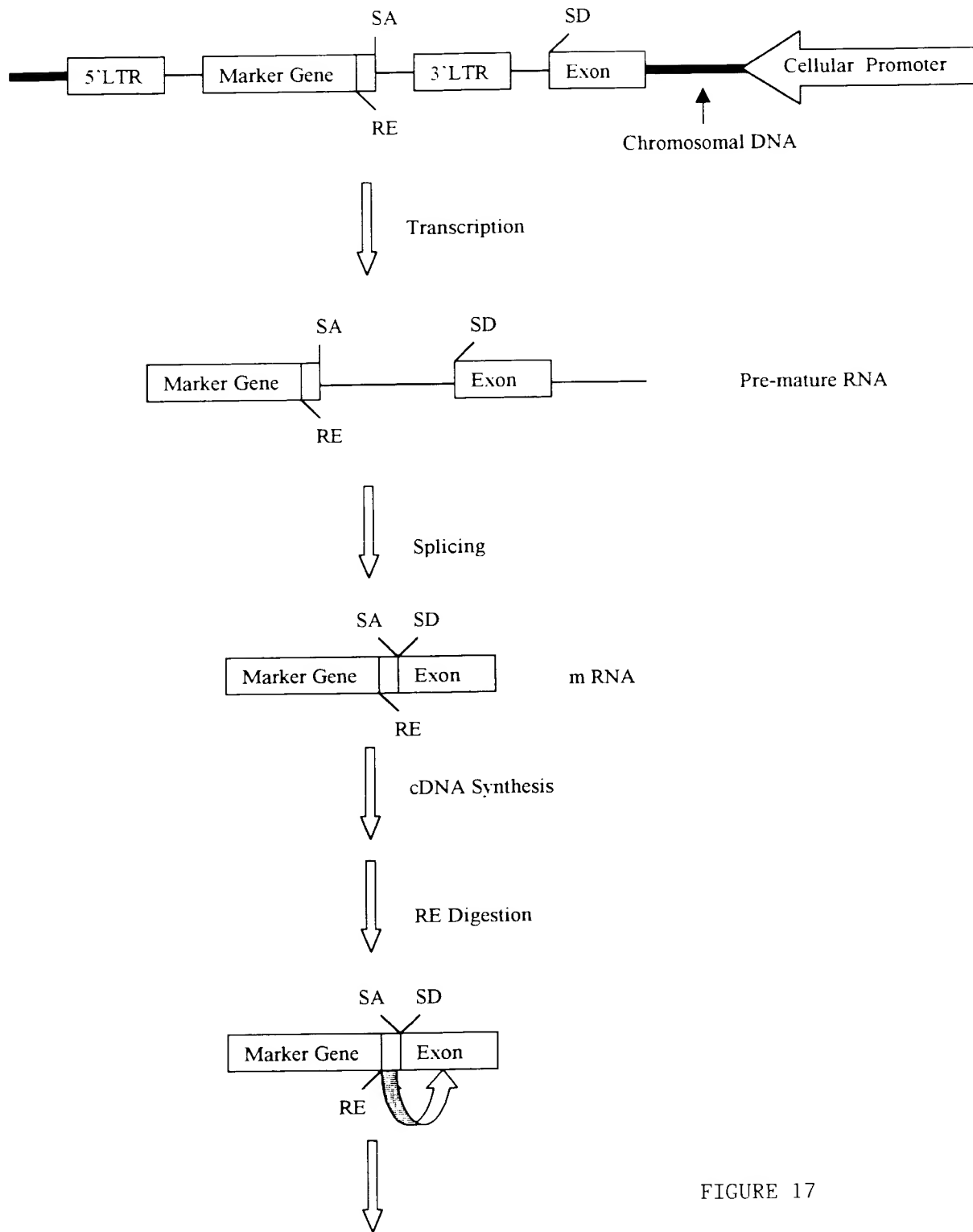


FIGURE 17

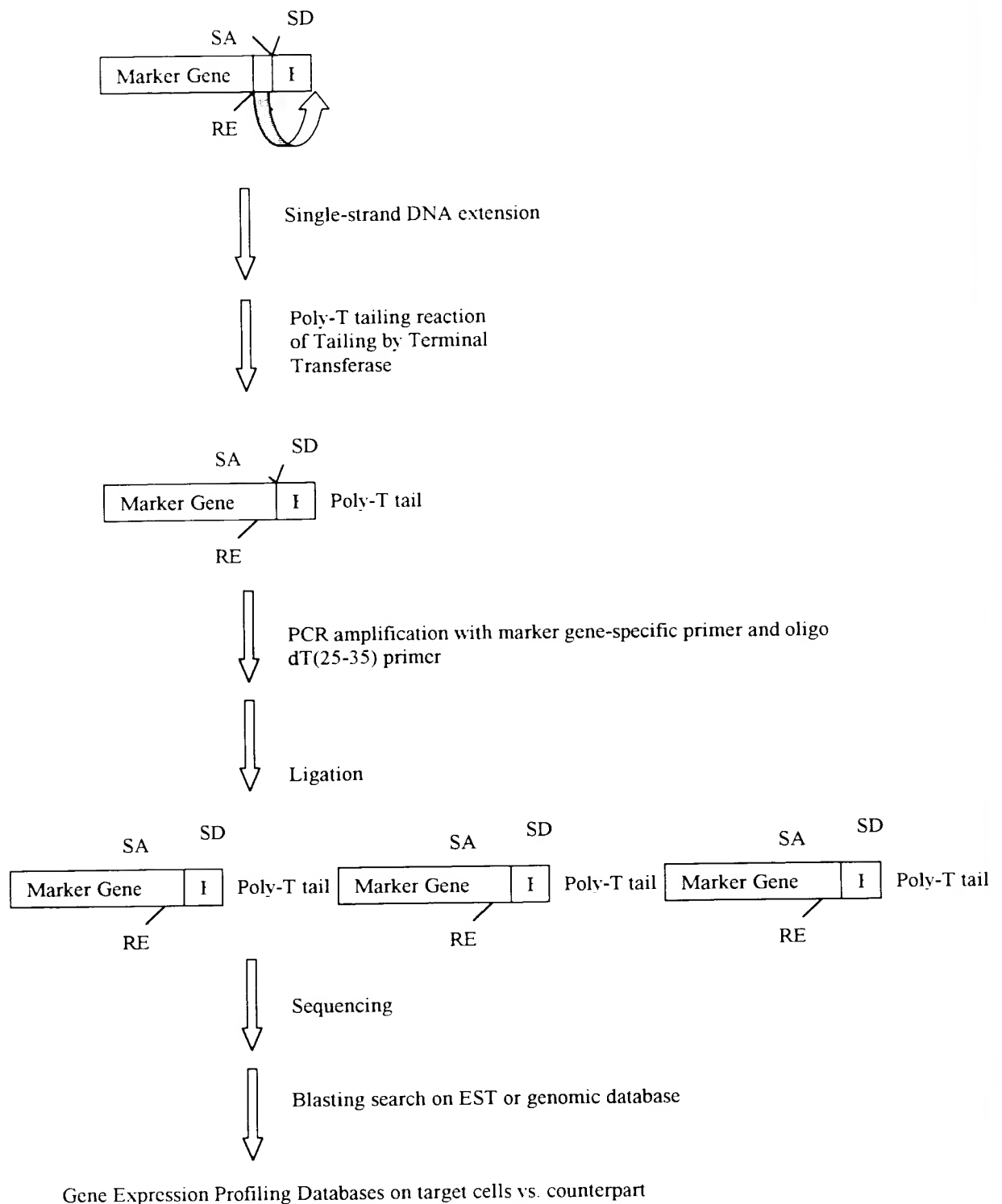
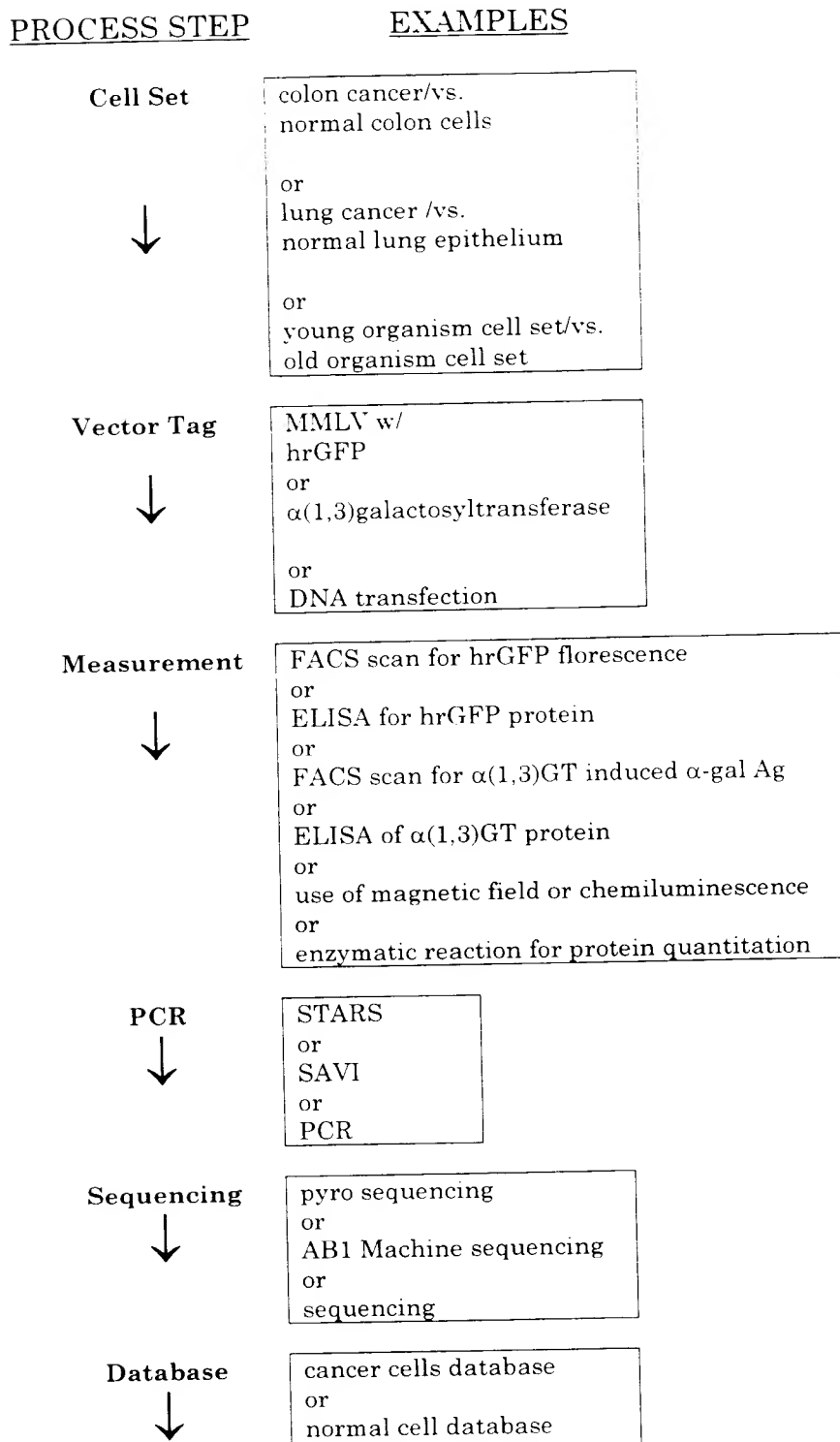


FIGURE 17 (cont.)

FIGURE 18



PROCESS STEP

EXAMPLES

Search Process



Parallel BLAST search EST
or
Search Genome database full sequence to define intron/exon
or
Alternative splicing database

**Comparative
Proteonomics**



Compare colon cancer cell to normal colon epithelium
or
Compare lung cancer cell to normal lung cell

**Pathway
Analysis**



multigene co-variant
or
Specific cell circuit analysis e.g. cell cycle

**Target
Validation/
Diagnostics**



Monoclonal kb diagnostics Northern analysis, Western analysis
or
DNA assay/gene chip comparison
or
SNP Associations
or
Yeast 2-hybrid fishing for protein partner

**Drug
Development**

monoclonal Antibody treatment
or
small molecule library search and/or
treatment
or
gene therapy
or
anti-sense
or
Ribozyme
or
any other conventional
pharmaceutical drug development

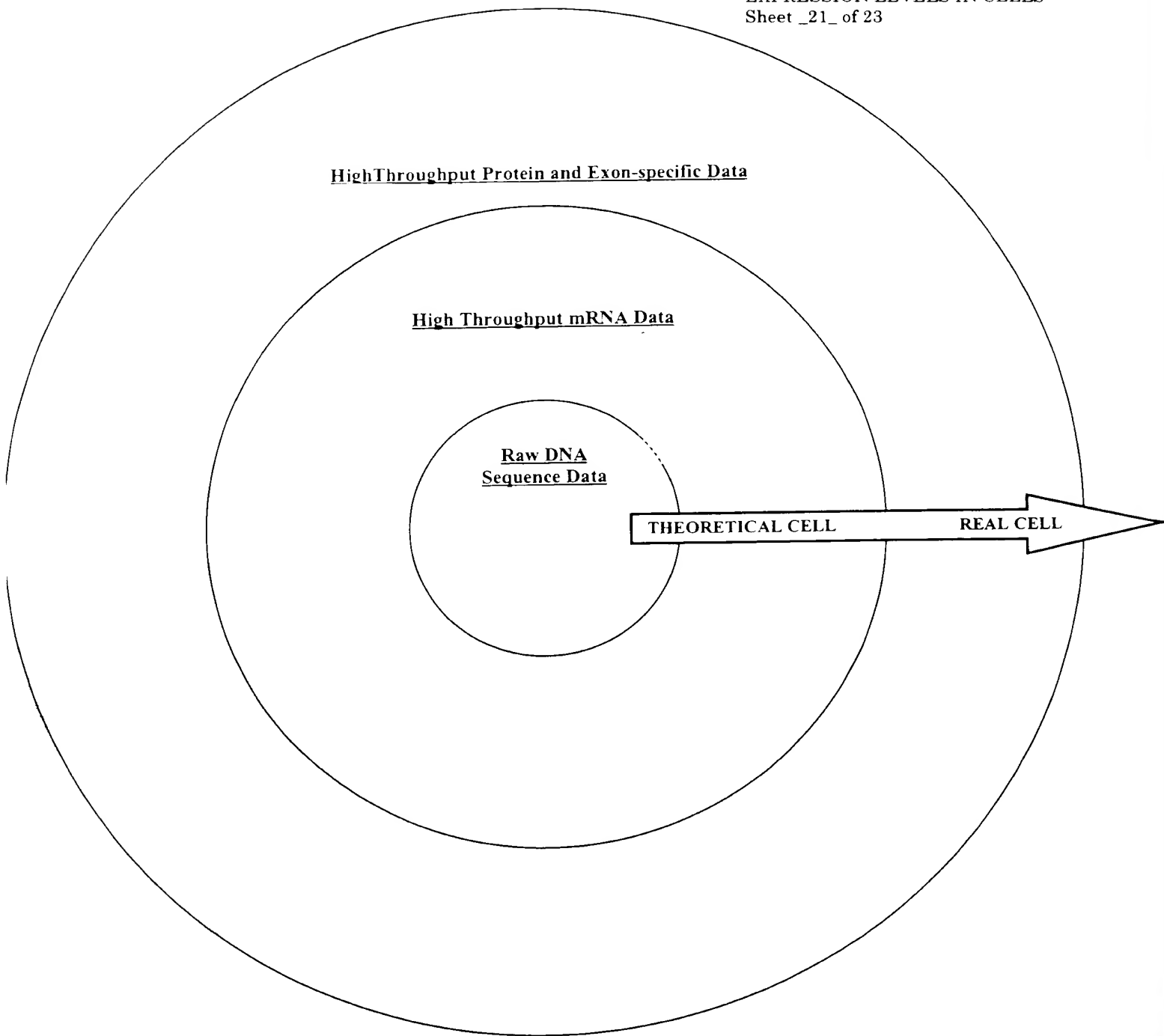


FIGURE 19

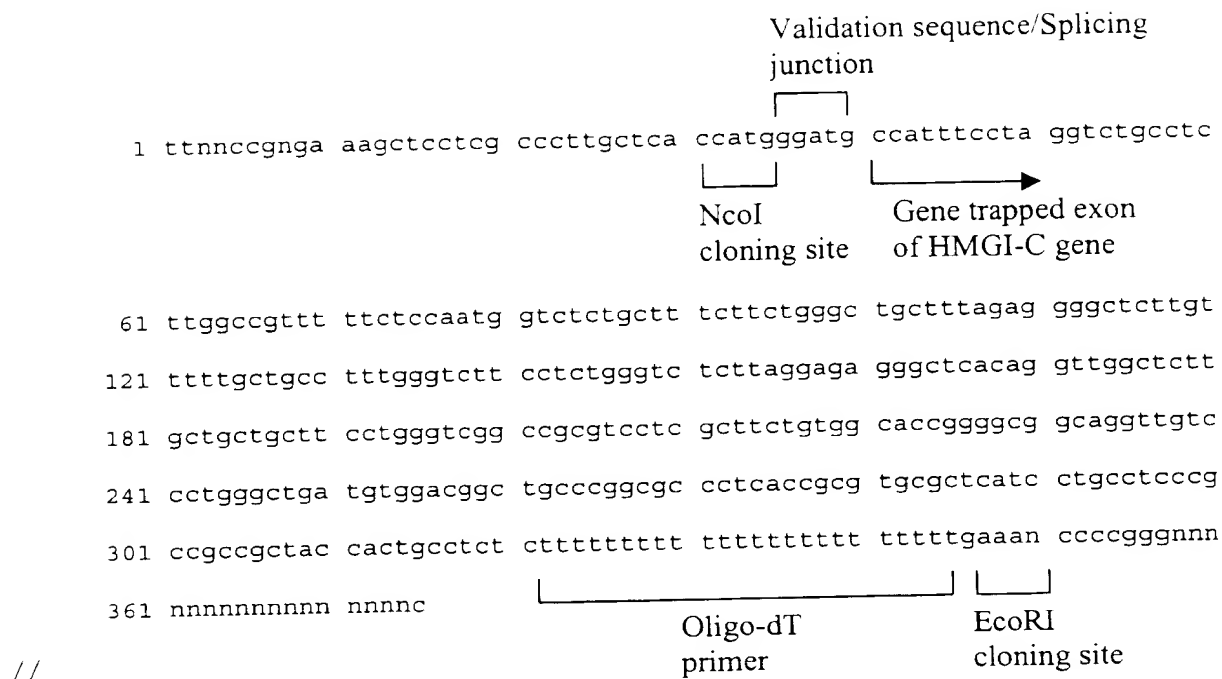
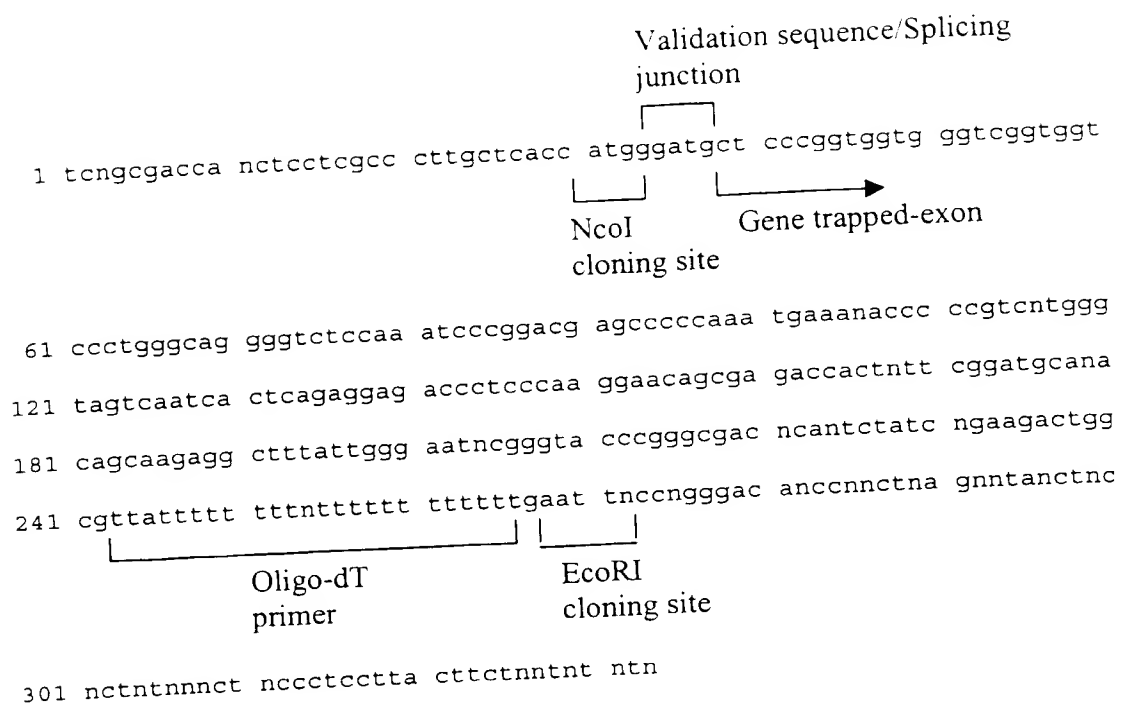


FIGURE 20



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FIGURE 21